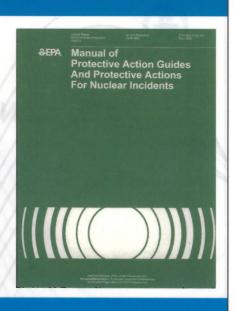


1992 EPA PAGs Manual

- · Still useful!
- Focused on nuclear power plant incidents
- A 1992 symposium expanded scope to other rad incidents





2

What is a Protective Action Guide?

- A value against which to compare the projected dose to a defined individual from a release of radioactive material at which a specific protective action to reduce or avoid that dose is warranted. Projected dose is dose that can be averted by protective action.
- •Guidance for public officials.
- · Protective Action Guides are called 'PAGs'



Incident Response Phases

- •Early Phase: The first hours to days until the release has stopped, when protective actions decisions must be made with little to no information
- Intermediate Phase: The weeks to months when more information is available, protective actions are more restrictive, and cleanup planning begins
- Late Phase: No longer an emergency response; activities shift to long term recovery and cleanup



Early Phase

- Evacuation/Shelter 1-5 rem (10-50 mSv)
- KI 5 rem (50 mSv) child thyroid dose
- Worker 5, 10, 25+ rem (50, 100, 250+ mSv)



Intermediate Phase

- · Relocate population
 - · ≥ 2 rem (20 mSv) first year (projected dose)
 - 0.5 rem (5 mSv) any subsequent year
- · Apply dose reduction techniques
 - < 2 rem (20 mSv)</p>
- · Food (FDA 1998): Most limiting of
 - 0.5 rem (5 mSv) whole body or
 - 5 rem (50 mSv) to most exposed organ or tissue



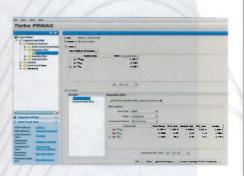
Late Phase

- · 'Late Phase' is the cleanup and restoration phase
- Re-entry, cleanup and waste management guidance resulted from PLE 3-10 exercise
- DHS 2008 RDD/IND guidance on a stakeholder process to determine cleanup criteria has been incorporated as well



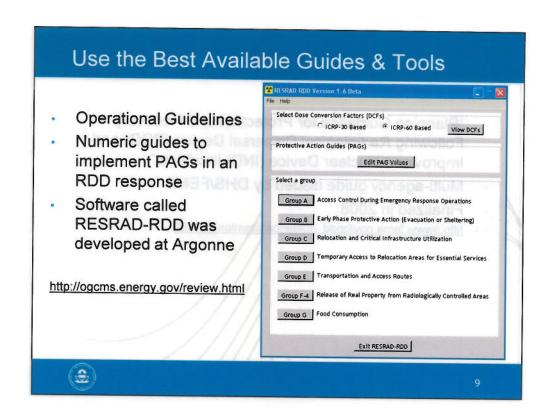
Use the Best Available Guides & Tools

- PAGs are simply guidance!
- Use more current, improved, or more locally appropriate guides when available
- So, what guidance might be used?

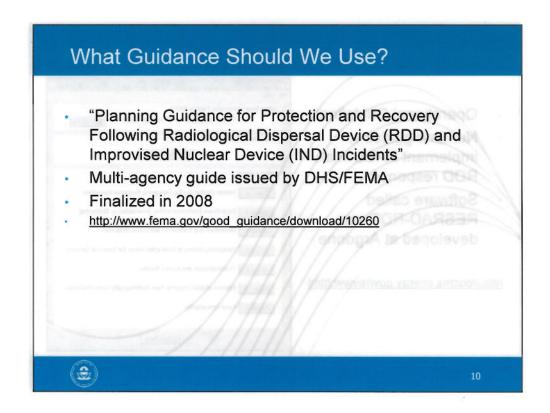




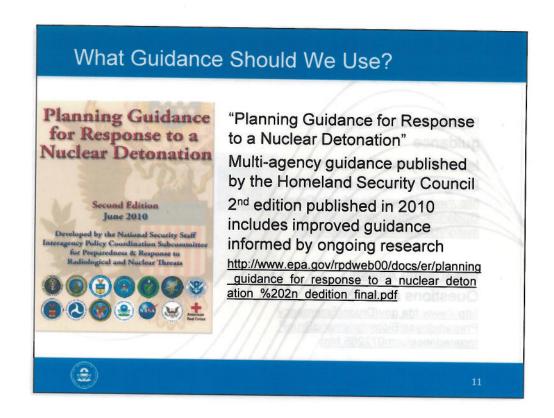
8



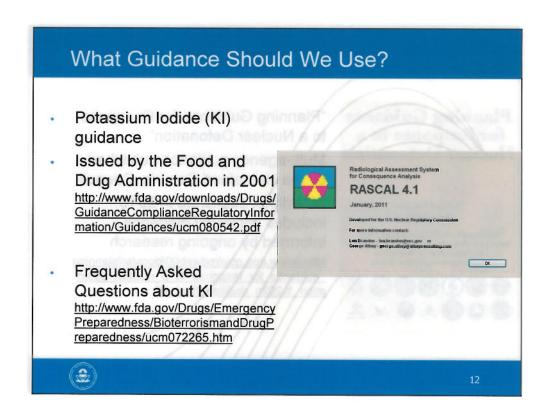
This one validates using the existing EPA PAGs for RDDs, INDs. It will be unperceded when the EPA PAG Manual is officially issued for use.



This one validates using the existing EPA PAGs for RDDs, INDs... It will be superceded when the EPA PAG Manual is officially issued for use.



This one gives specific advice for planners thinking about unique challenges for response in the first days after an urban nuclear detonation...



This KI guidance is more current than what is reprinted in the 1992 PAGs Manual – so many of you already use it.

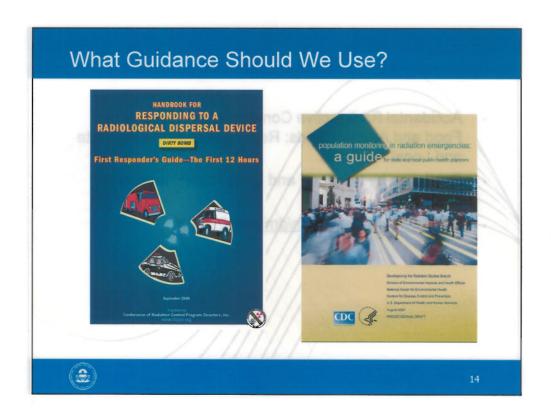
What Guidance Should We Use?

- Accidental Radioactive Contamination of Human Food and Animal Feeds: Recommendations for State and Local Agencies
- Published by the Food and Drug Administration in 1998
- http://www.fda.gov/cdrh/dmqrp/1071.pdf



1

This Food PAG guidance is more current than what is reprinted in the 1992 PAGs Manual – so many of you already use it.



Here are some practical implementation guides for operations in a radiation response!



Questions?